

CRESTLINE® DAMPENING SYSTEM

INSTALLATION INSTRUCTIONS

Didde Apollo 8 1/2"



A Pamarco Technologies Inc. Company

X88-42
01/2001
Rev-B

GENERAL INFORMATION

**ATTENTION
CRESTLINE®
DAMPENER
OWNER!**

Accel Graphic Systems provides parts and service through its authorized distributors and dealers. Therefore, all requests for parts and service should be directed to your local dealer.

The philosophy of Accel Graphic Systems is to continually improve all of its products. Written notices of changes and improvements are sent to Accel Graphic System's Dealers.

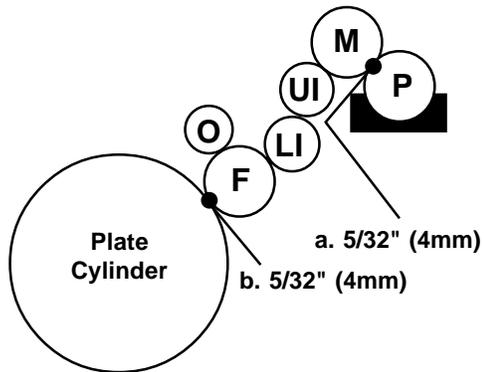
If the operating characteristics or the appearance of your product differs from those described in this manual, please contact your local Accel Graphic System's Dealer for updated information and assistance.

Always update your dampener when improvements are made available, especially those related to safety.

YOUR AUTHORIZED CRESTLINE® DEALER IS:

**THE SERIAL NUMBER OF YOUR
CRESTLINE® DAMPENER(S) IS:**

GENERAL INFORMATION



TERMINOLOGY	OPS	=	Operator's Side
	NOPS	=	Non Operator's Side

SAFETY INFORMATION For your safety, do not disengage or remove any guards from the Crestline dampener. The dampener contains some inward rotating nips that can cause injury if left unguarded

TECHNICAL ASSISTANCE For technical assistance during the installation, please contact:

ACCEL GRAPHIC SYSTEMS
11103 Indian Trail
Dallas, TX 75229
PHONE (972) 484-6808
FAX (800) 365-6510
E-MAIL accel@dallas.net
WEB SITE www.accelgraphicsystems.com

Crestline is covered by U.S. Patents and Patents Pending

GENERAL INFORMATION

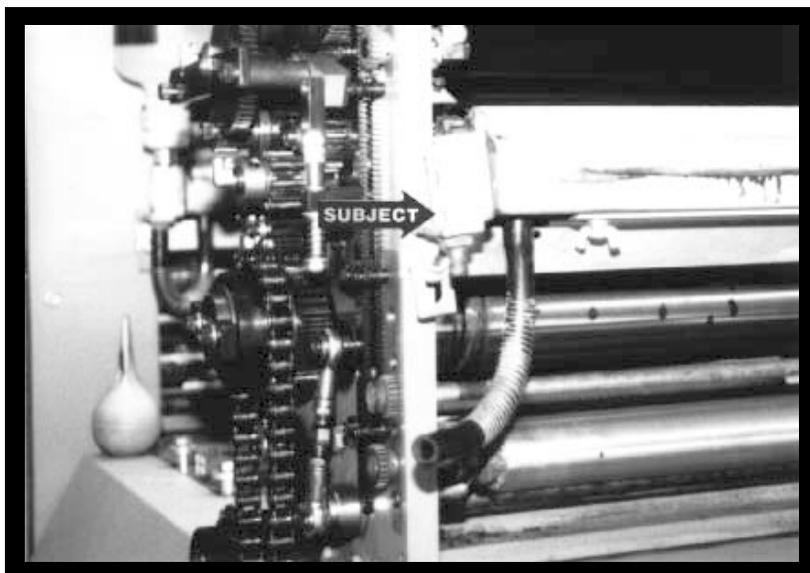
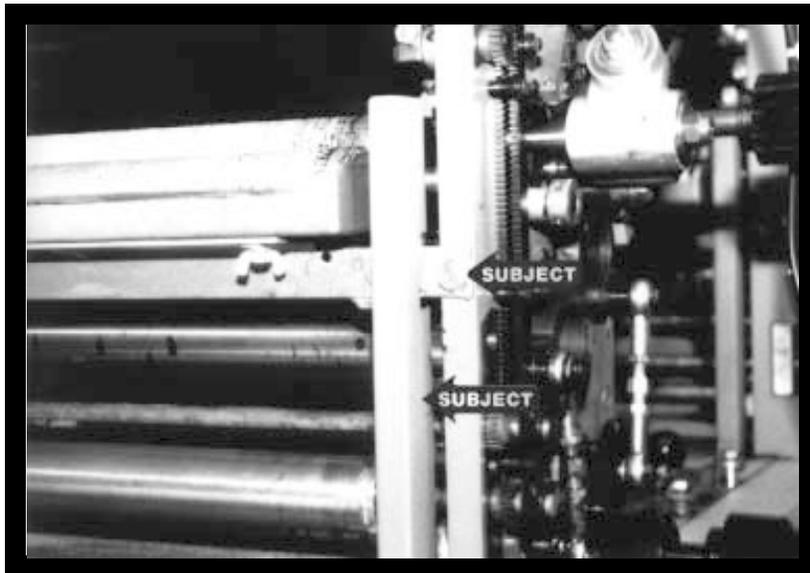
REQUIRED TOOLS

1. Phillips Screwdriver
2. Snap Ring Tool
3. 9/16" Open End Wrench
4. 5/16" Open End Wrench
5. 7/16" Open End Wrench
6. 1/8" Allen Wrench
7. 2 Post Gear Puller
8. 3/16" Allen Wrench
9. 9/64" Allen Wrench
10. 5/8" Open End Wrench
11. 5/32" Allen Wrench

PRE-INSTALLATION INSTRUCTIONS

PRE-INSTALLATION PROCEDURES AND HOW TO PARALLEL THE DAMPENER.

1. Cut the ties holding the rollers and examine the rollers for gouges, scratches or nicks.
2. Check the box and parts boards to make sure all pieces are present and nothing has been damaged in shipment.
3. Check the dampener alignment by setting it on end on a flat surface such as a cutter bed. If dampener rocks, it needs to be realigned. Loosen the tie bar bolt and align the frames on the flat surface. Retighten bolt.



DISASSEMBLY

1

Remove press side covers. Remove water form rollers.

IMPORTANT! Disengage existing water pan roller motor by removing the fuses.

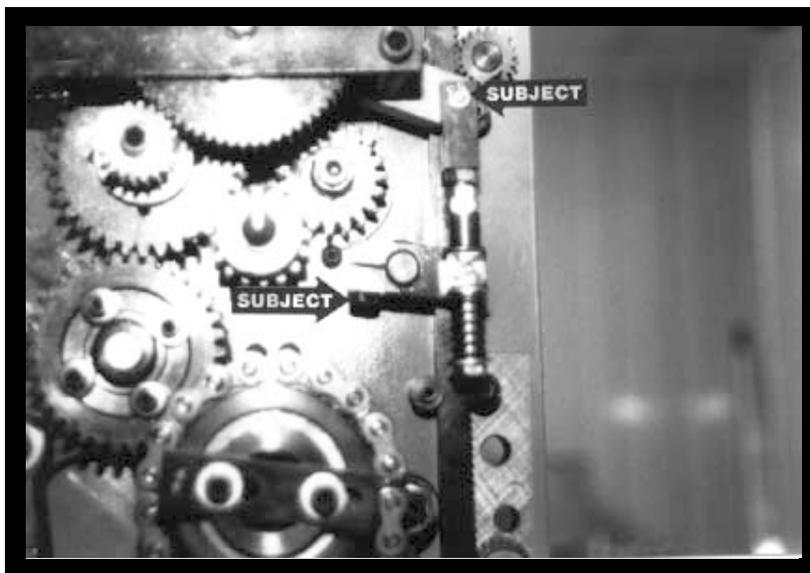
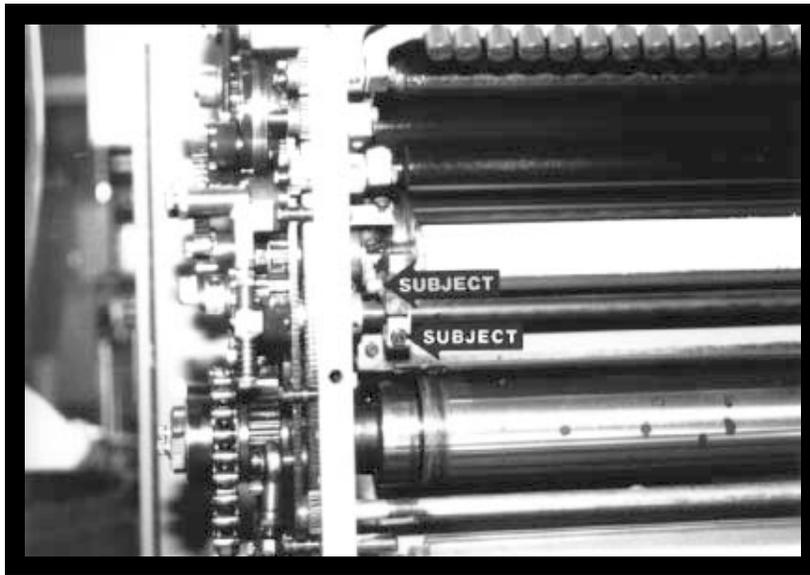
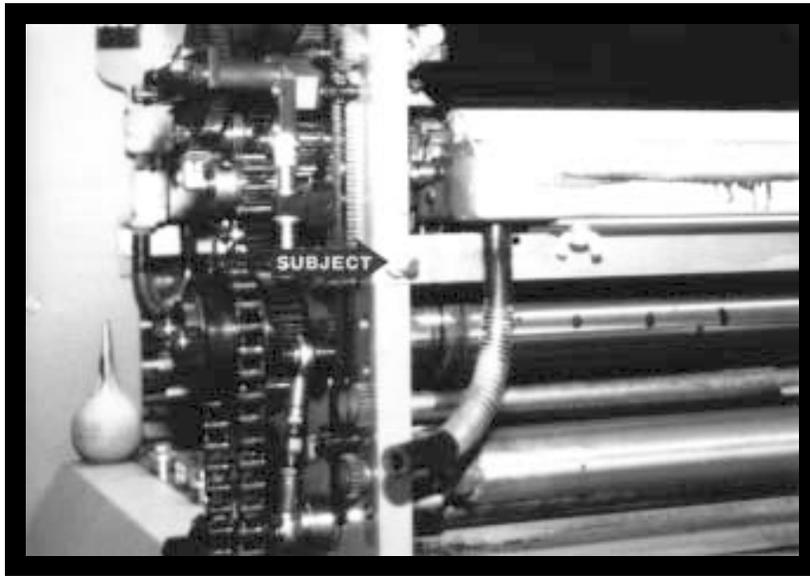
2

Remove water pan bolt (upper subject arrow) and chain guard (lower subject arrow) at OPS. The chain guard lifts out.

3

Remove water bottle filler at NOPS (subject arrow).

7



DISASSEMBLY

4

Remove water pan bolt at OPS & NOPS (subject arrow). Remove water tray, pan roller and drive chain. Drop chain down into framework of press.

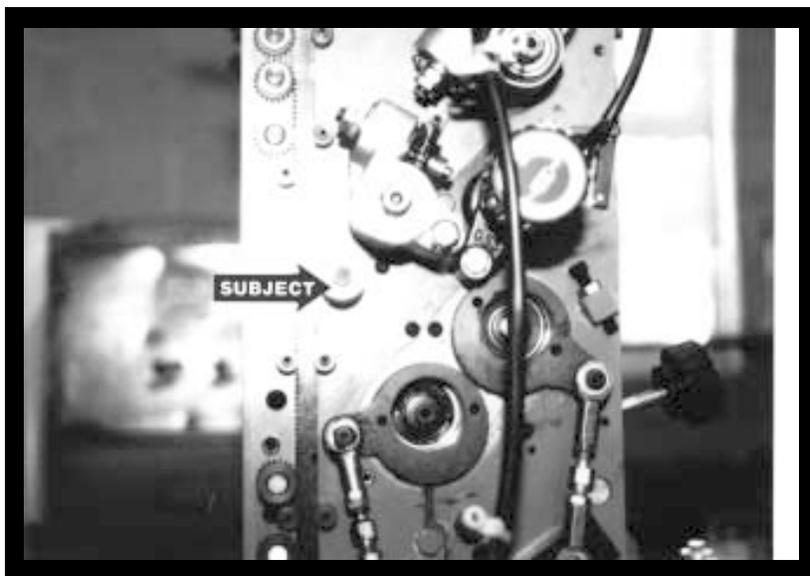
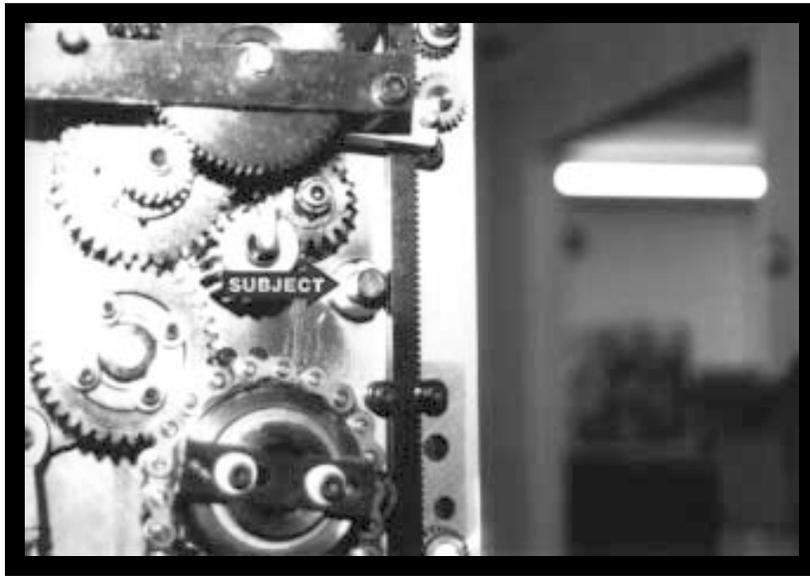
5

Loosen nuts holding molleton ductor bracket (upper subject arrow), swing down and remove ductor roller. Also, loosen ductor arms (lower subject arrow).

6

Remove snap ring at NOPS, loosen nut on block and pull block off. (Snap ring and nut indicated by subject arrow).

9



DISASSEMBLY

7

Remove NOPS set collar (subject arrow).

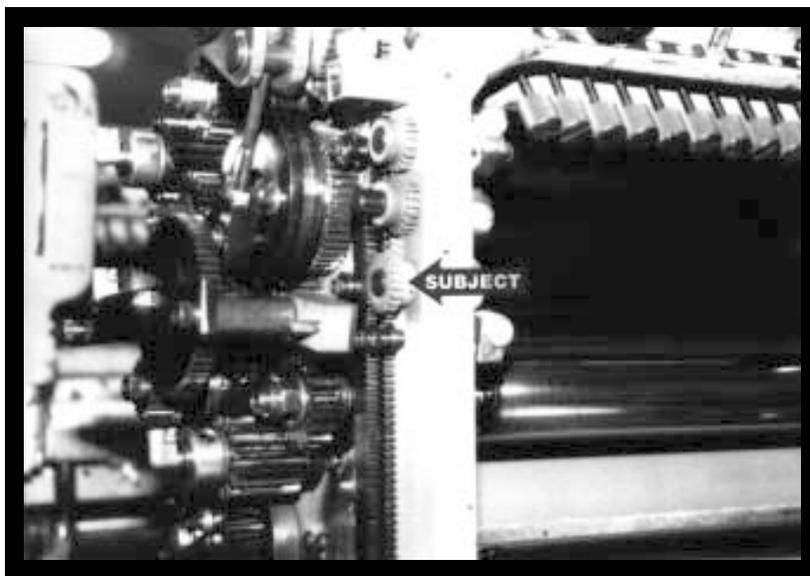
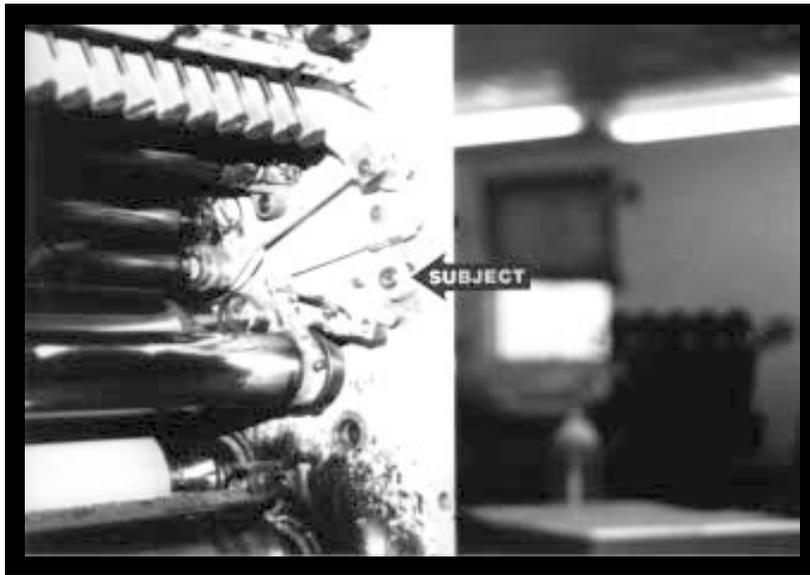
8

Loosen set collar and brackets on ducting mechanism shaft (shaft indicated by subject arrow).

9

Grasp set collar at OPS and pull ductor shaft (subject arrow) out of the press.

11



DISASSEMBLY

10

Remove shoulder bolt (subject arrow) holding water form adjusting arm at OPS & NOPS.

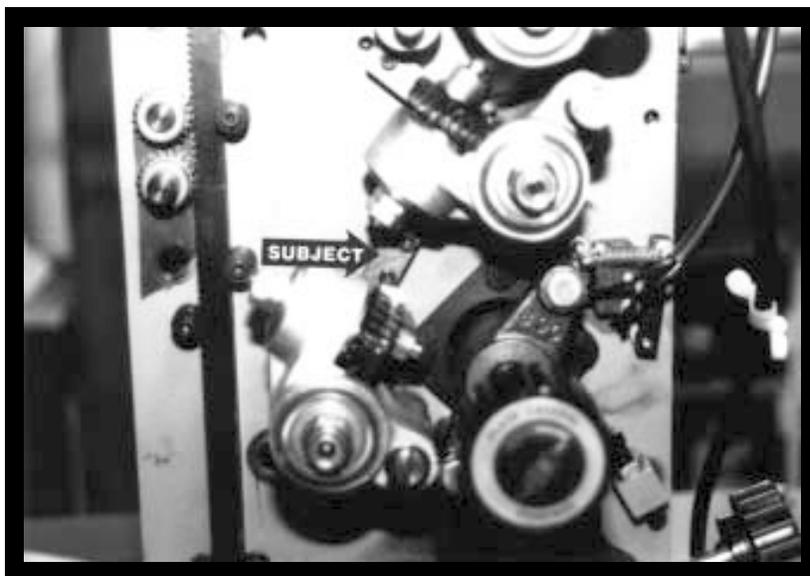
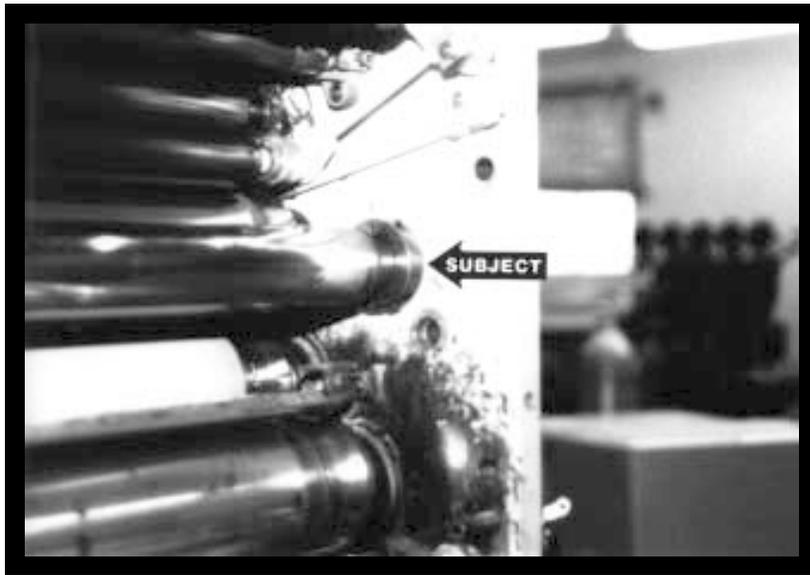
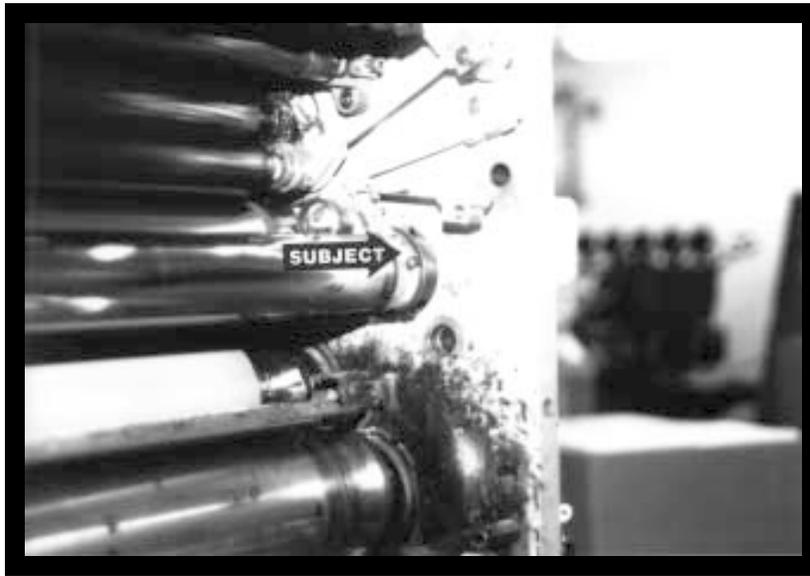
11

Remove set collar (subject arrow) behind adjusting arm and plastic guard mounting plate.

12

Remove gear assembly (subject arrow) at OPS & NOPS. Save OPS assembly for reinstallation.

13



DISASSEMBLY

13

Remove 2 cap screws from water form hanger (subject arrow) at OPS & NOPS and pull hanger from press.

14

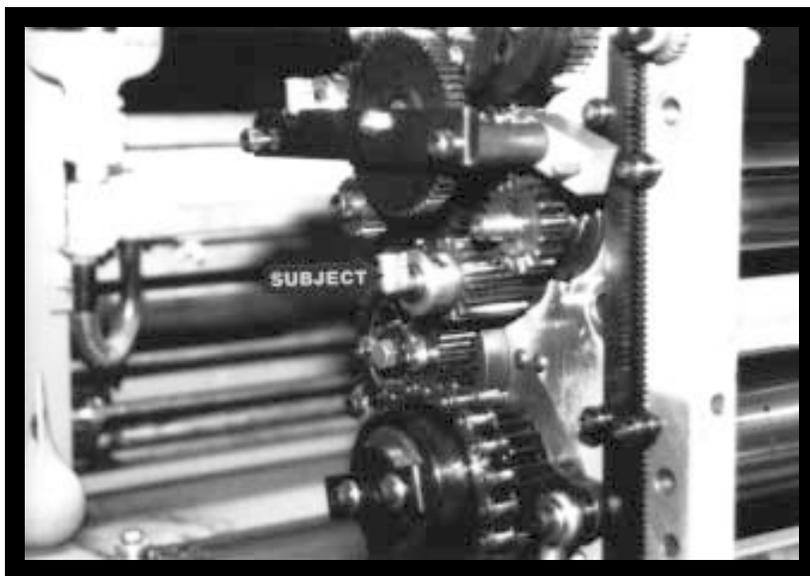
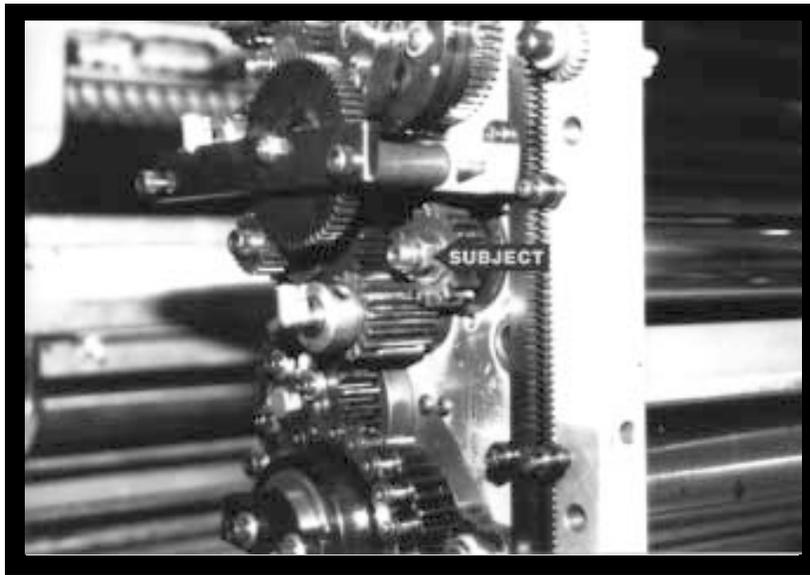
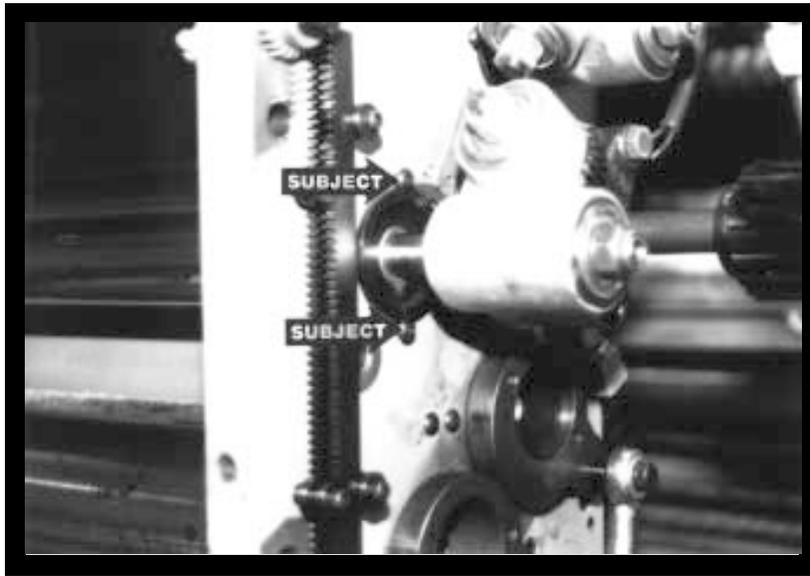
Remove collar (subject arrow) at OPS & NOPS.

NOTE: On some presses, this may be a second water form hanger.

15

Remove block at OPS (subject arrow).

15



DISASSEMBLY

16

Remove button head screws holding oscillator housing at OPS (subject arrow).

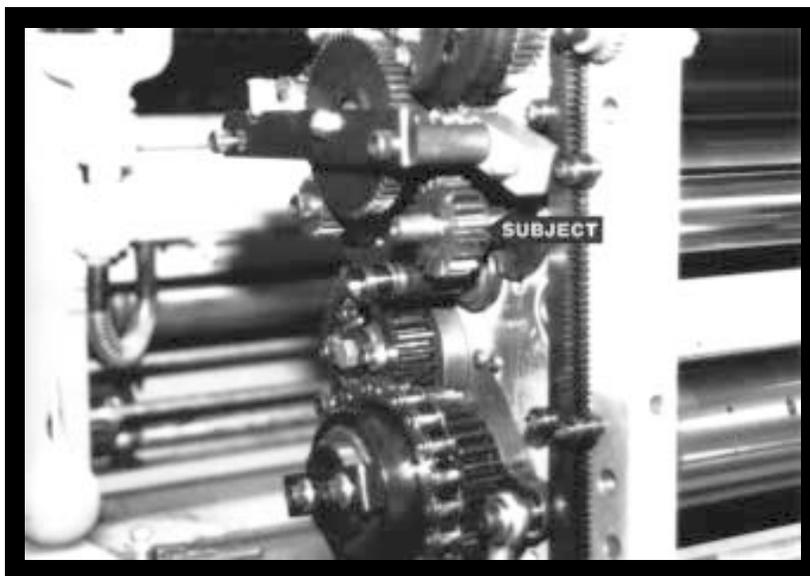
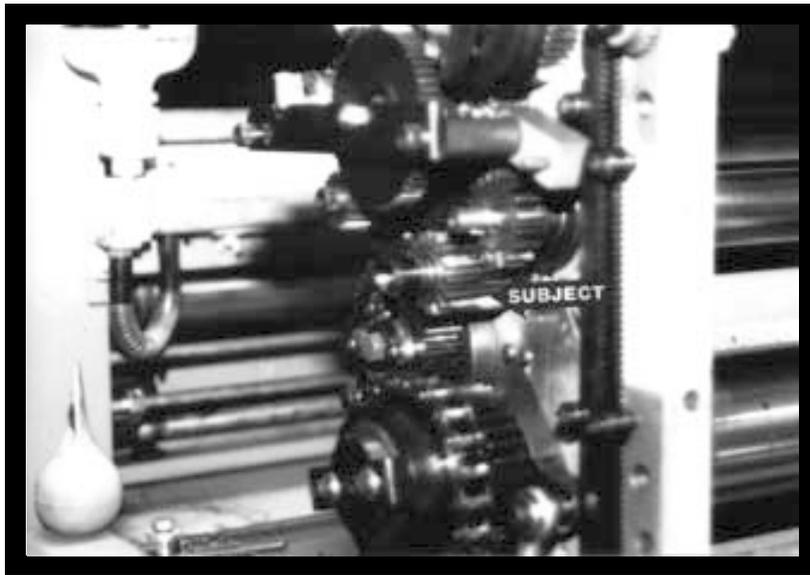
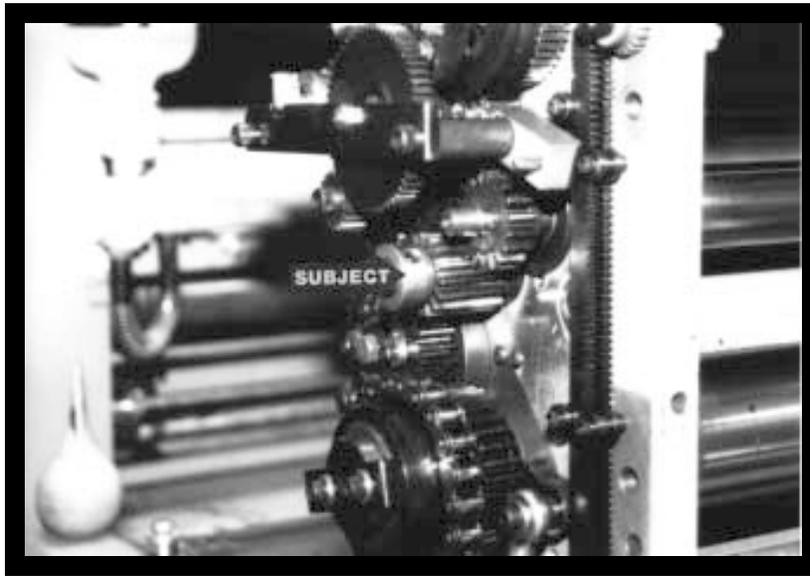
17

Remove nut on oscillator gears at NOPS and washer behind it.

18

Spin off oil filler cap (subject arrow) at NOPS.

17



DISASSEMBLY

19

Remove set screw from collar (subject arrow) and pull collar off shaft. Save shaft for reinstallation.

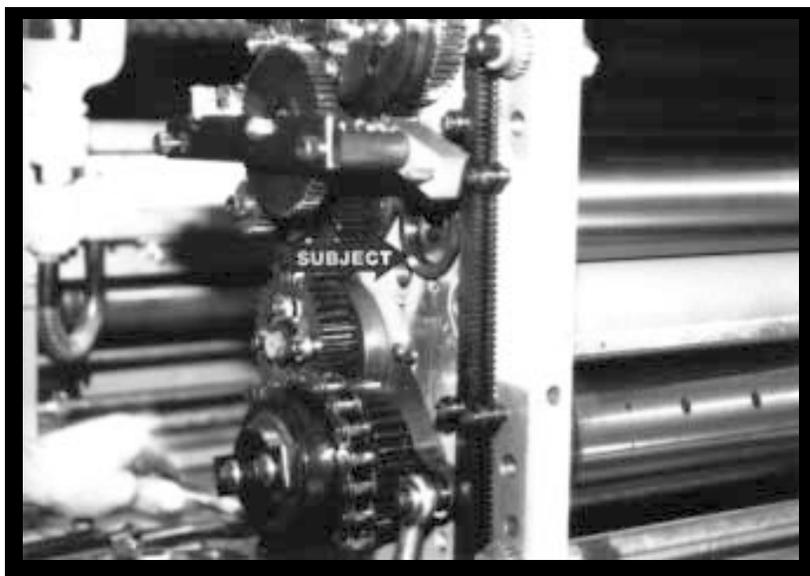
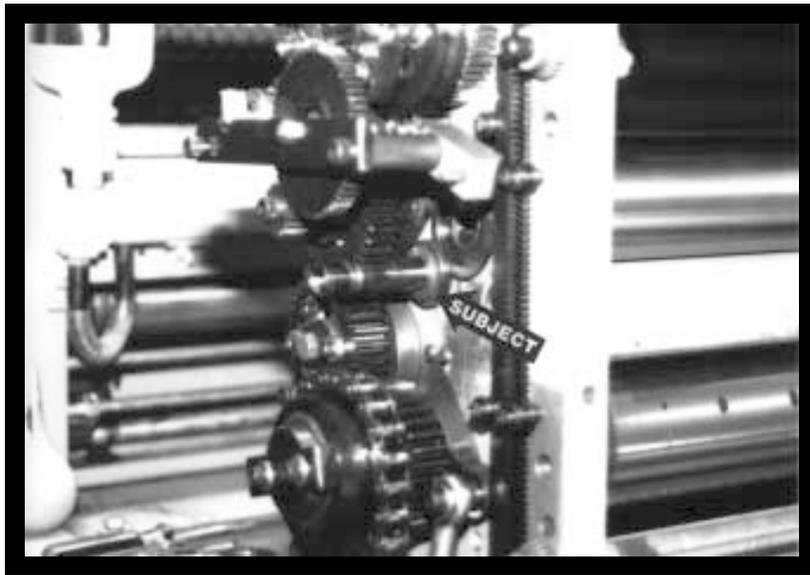
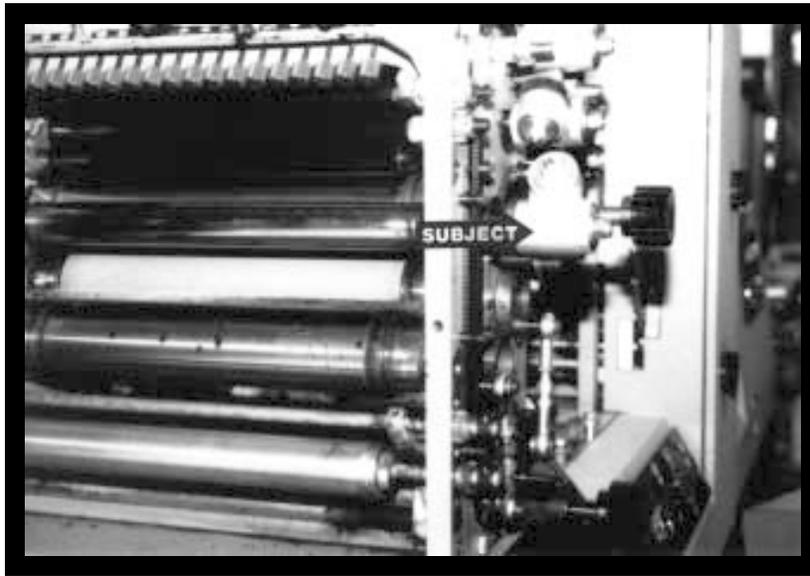
20

Pull off gear (subject arrow) that was behind oil filler and set collar.

21

Pull off gear at the end of the oscillator (subject arrow). Gear has a keyway and may require a gear puller.

19



DISASSEMBLY

22

Grasp oscillator mechanism at OPS (subject arrow) and pull out of press.

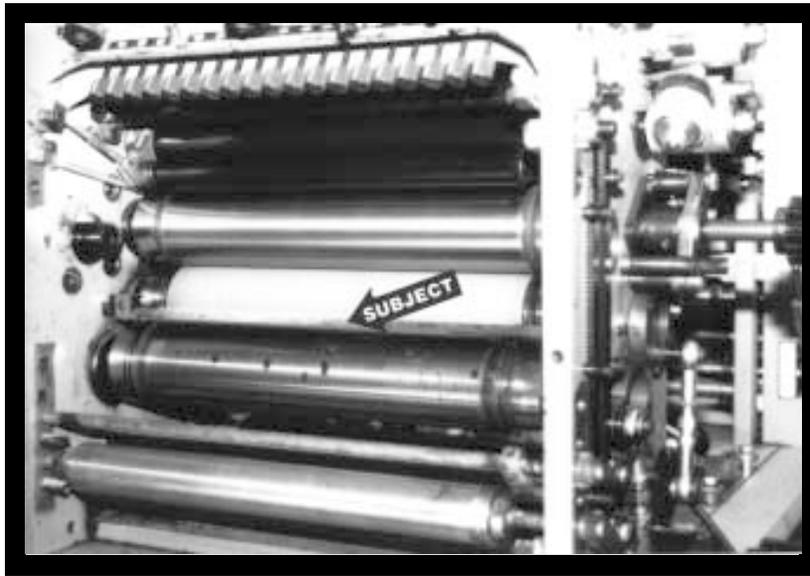
23

Remove stud (subject arrow). Stud held in by flat head screw inside the press frame. Save for reinstallation.

24

Remove housing (subject arrow) from side frame.

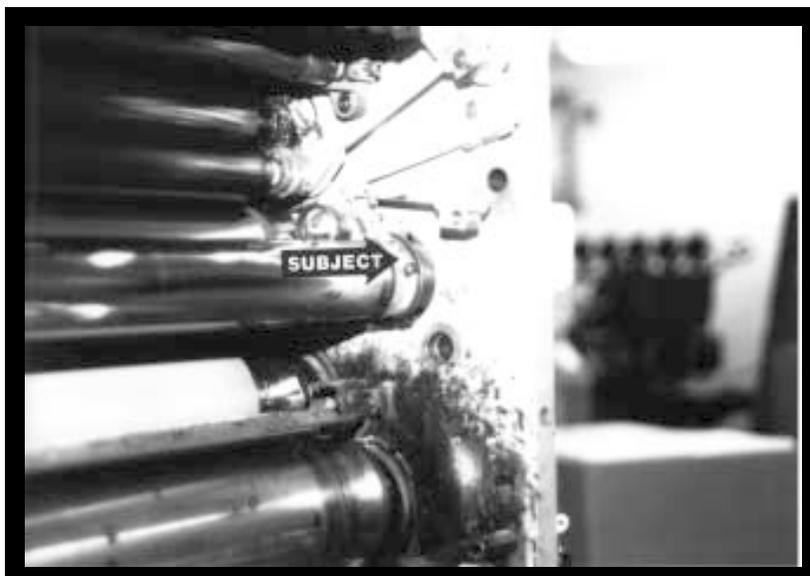
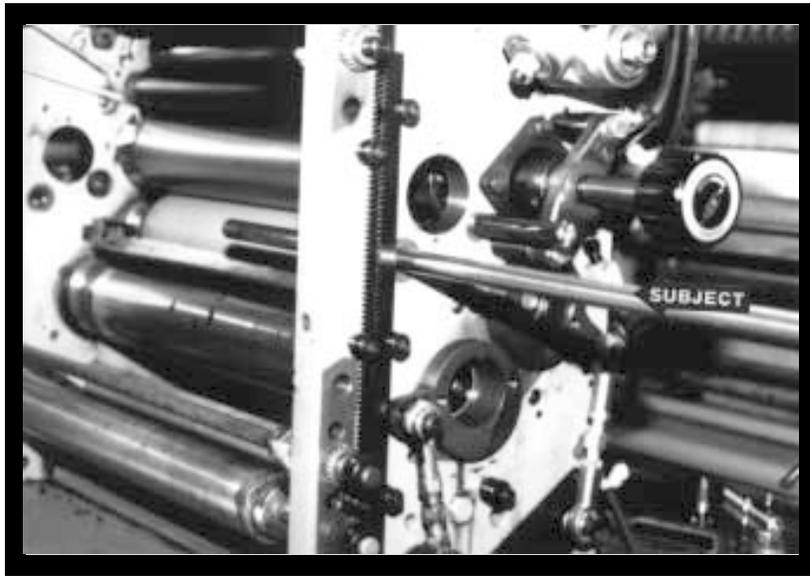
21



25

Remove drip guard between cylinders (subject arrow) by taking out head bolts in frame (right hand subject arrow).

YOU ARE NOW READY TO INSTALL CRESTLINE®.



INSTALLATION

1

Install drive shaft (subject arrow) through OPS bushing and half-way into press as shown. The end of the shaft with the hole will be toward OPS.

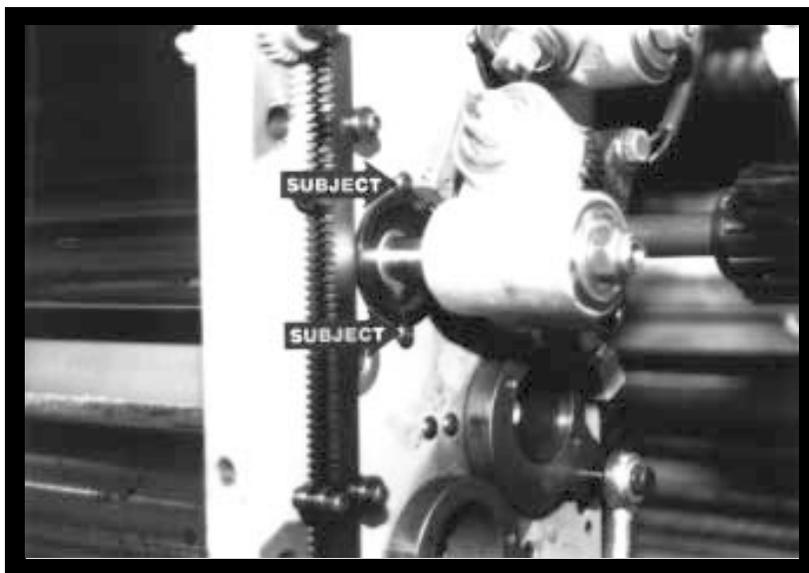
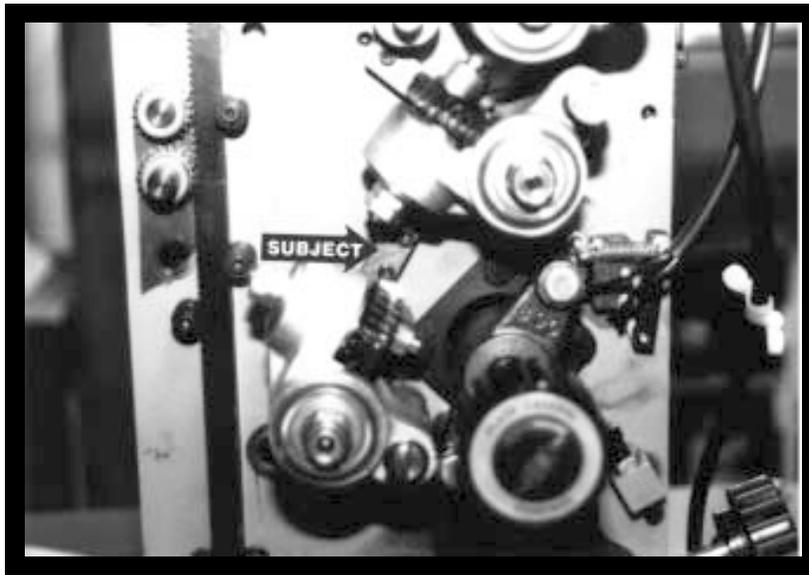
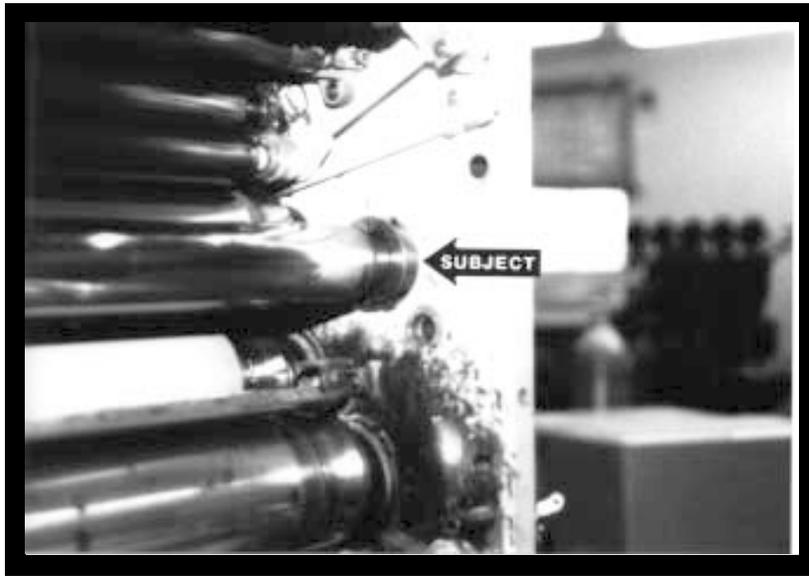
NOTE: At this point, inspect frame bushings for wear. New ones are provided if needed.

2

Slide thrust washer, gear and stabilization block (in that order) over the end of the drive shaft (left subject arrow). The hub of the gear will point toward the OPS. Continue sliding the shaft through the press and into NOPS bushing. Line up the hole in the gear with the hole in the drive shaft and, using provided roll pin, fasten gear to shaft. Pull shaft back toward OPS until gear and thrust washer butt against press frame. Take the remainder of the stabilization assembly (right subject arrow) and attach to press frame with the 3 cap screws (2 small, 1 large). Make sure block is flat against the frame before tightening bolts. Finally, place the spacer (middle subject arrow) between the stabilizer and block, insert long bolt through block and spacer and tighten while turning drive shaft to check for binding.

3

Slip one of the provided flange bushings over the OPS end of the drive shaft and up against the press frame (flange will be against frame). Slip the provided split set collar over the end of the shaft and up against bushing. Lightly pull drive shaft toward OPS and tighten collar (right subject arrow). There should be very little end play in the shaft. Also at OPS, slip on the drive shaft knob (left subject arrow) until the outside of the knob is flush with the end of the shaft and tighten screw. Turn shaft by hand to make sure shaft spins freely.



INSTALLATION

4

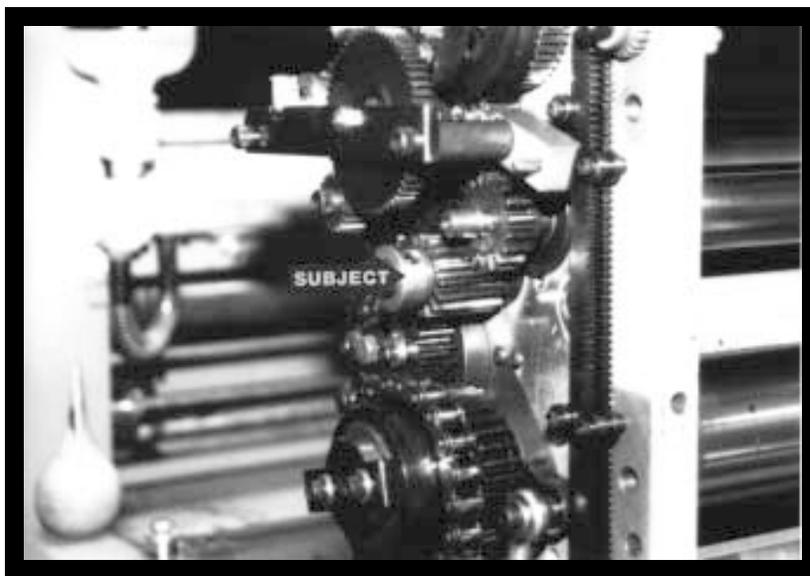
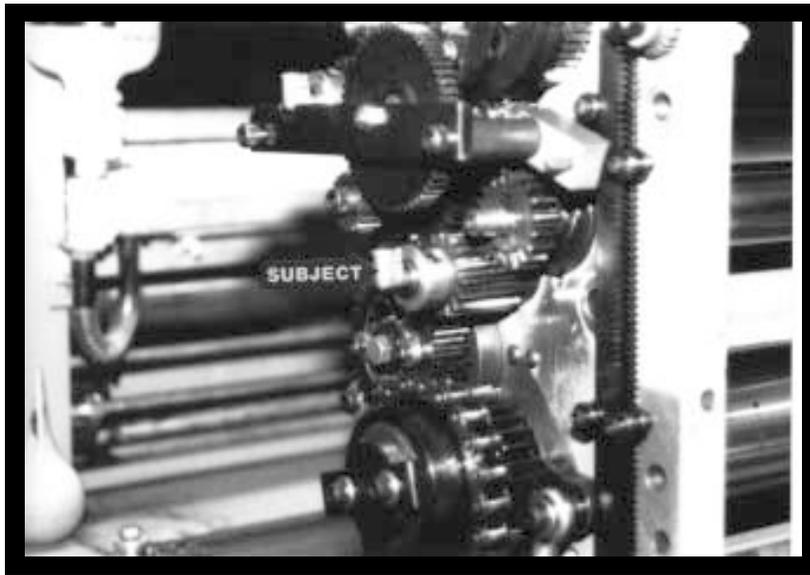
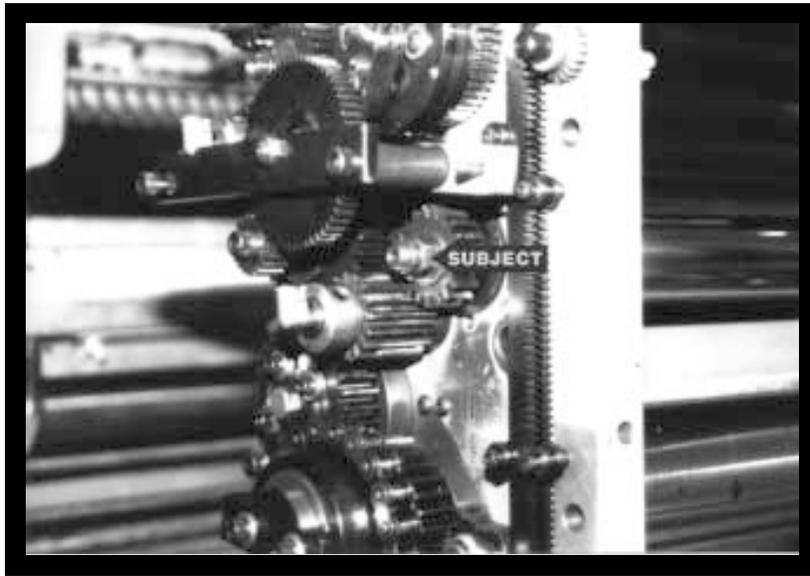
Reinstall original stud and thrust washer at NOPS then slide on fiber gear (subject arrow). Tighten bolt on inside of side frame.

5

Place flanged bushing on drive shaft at NOPS (subject arrow) making sure flange is towards the side frame.

6

At NOPS, slip gear on drive shaft with stamped letters on clutch bearing facing out (subject arrow). Next slip thin brass washer and thin set collar over the end of the shaft. Push up against gear and tighten.



7

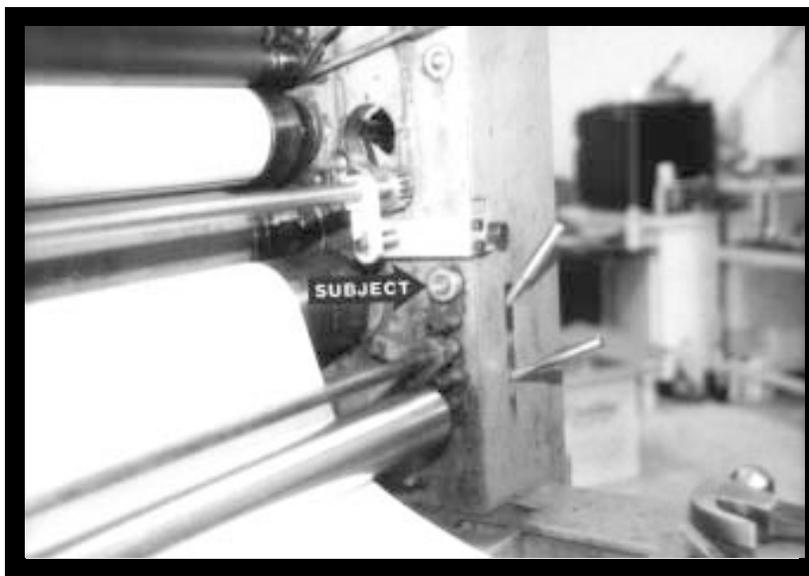
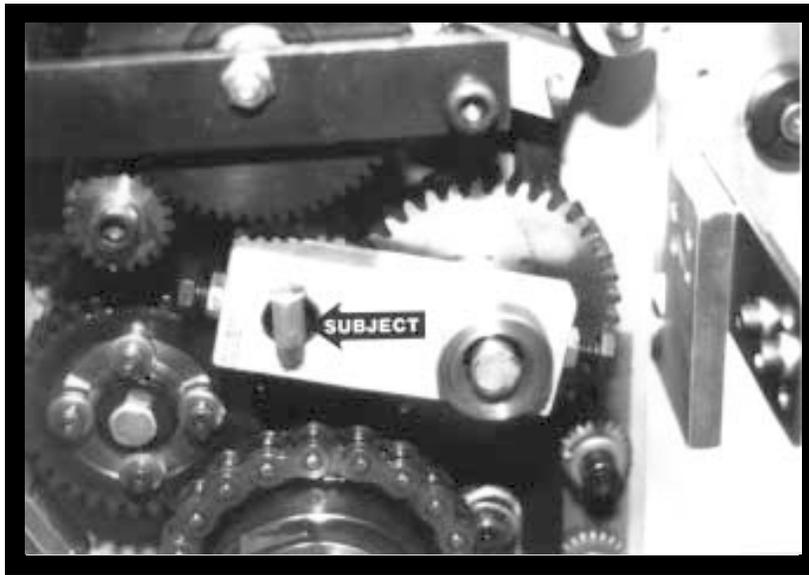
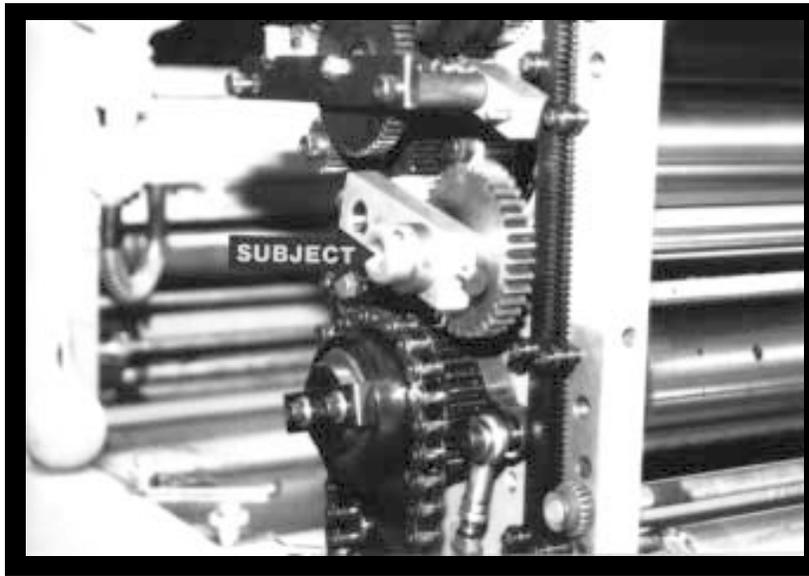
Slide block over stud and drive shaft (subject arrow).

8

Slide eccentric (subject arrow) on drive shaft and through block hole. Push aluminum block all the way against nylon gear and finger tighten left side bolt. Rotate eccentric to align gears and finish tightening left side bolt and nut.

9

Hold eccentric in place and tighten right side bolt and nut (subject arrow). Re-check freedom of rotation in drive shaft and, if necessary readjust eccentric.



10

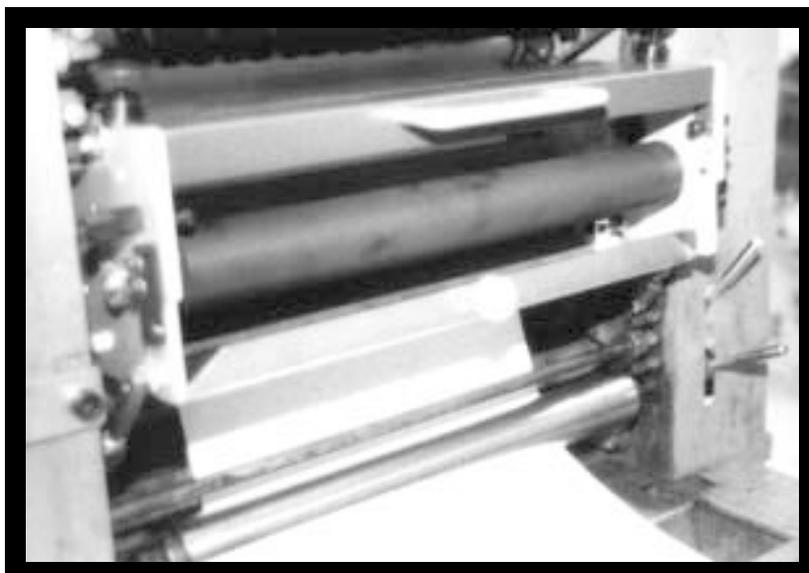
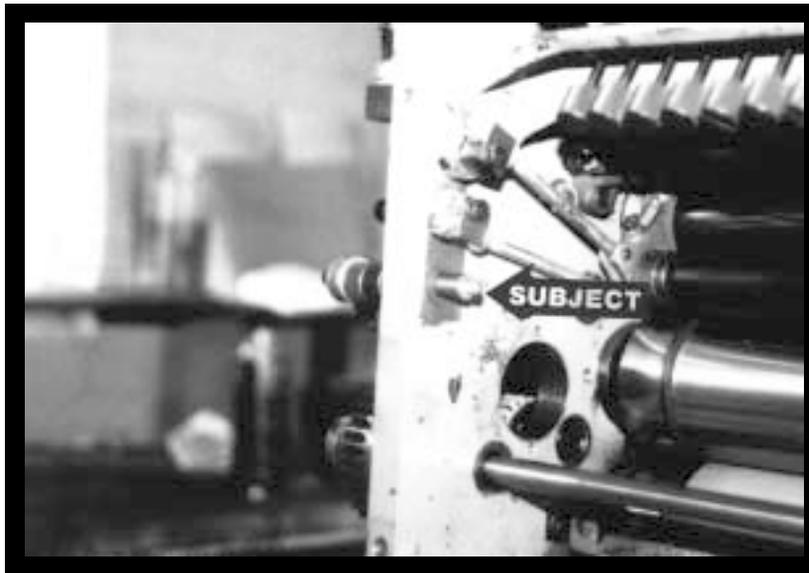
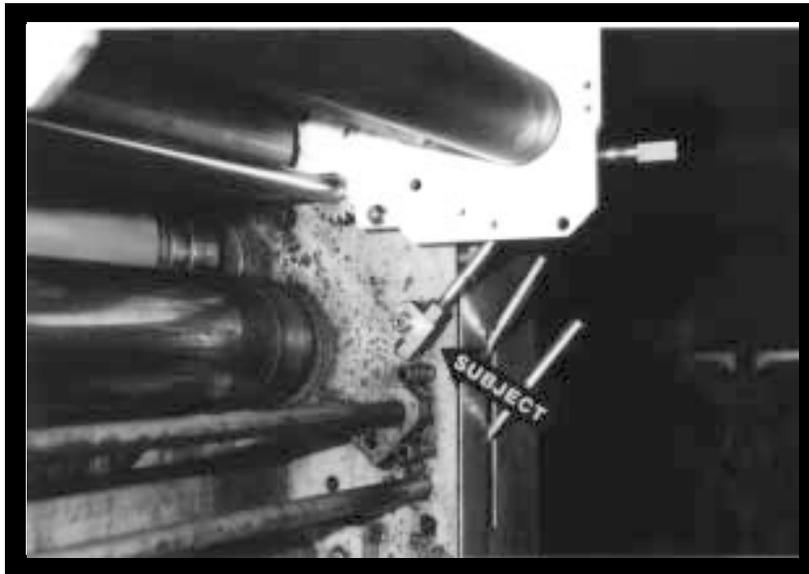
Place set collar on end of drive shaft (subject arrow) and tighten.

11

Re-install oil filler on stud (subject arrow).

12

At OPS, re-install original rack gear in the bottom hole (subject arrow) and slip set collar over gear shank and up against frame. At NOPS, install rack gear provided by Accel (there will be no collar with this gear). Make sure water form lever is in the OFF position and align gears so that the threaded holes in the gears point toward feed end of the press (a 9 o'clock position when viewed from OPS). Tighten collar at OPS and slip the provided nylon washer over the end of the NOPS gear shank inside the frame.



13

Re-install original form adjustment blocks (subject arrow) at OPS & NOPS using saved shoulder bolts. The shoulder bolt hole will be facing up as in the photo. Also note that the shoulder bolt hole is slightly offset from center. The hole should be offset toward the cylinders. If this is not the case, flip block over. Take the provided threaded lift arms and install in block as shown. Finger tighten nuts in a position where 3 or 4 threads are protruding past last nut.

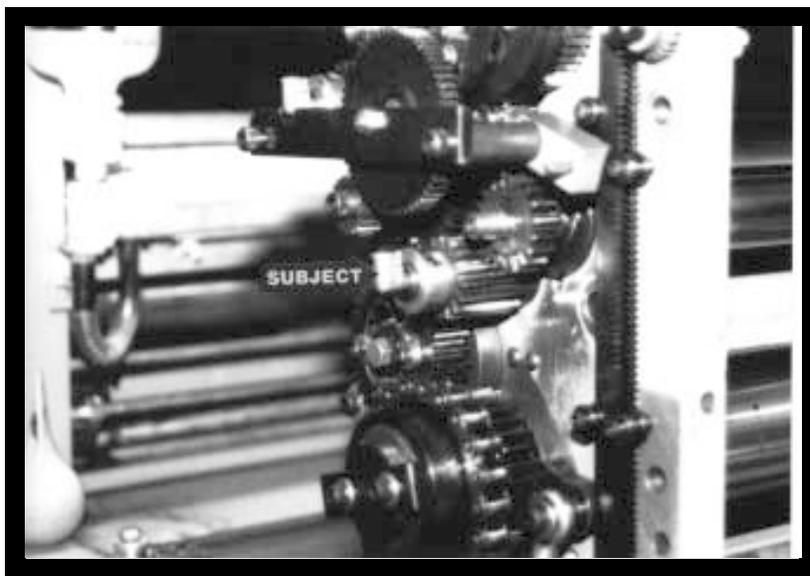
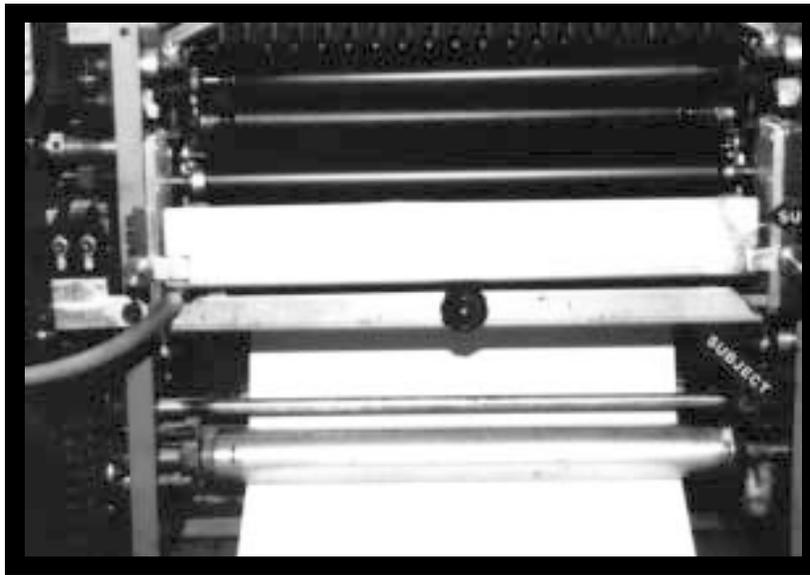
NOTE: Photo shows dampener already installed for better visualization.

14

Take the long pivot bolts and slip on a set collar and spacer (in that order) at OPS & NOPS, and slip through hole in frame as shown. Leave the ends of the bolts flush with the inside of the frame for now.

15

Turn lateral register adjustment until plate cylinder is centered (usually 1 3/4 turns from stop). Place dampener into press as shown and thread pivot bolts into frames. Center the dampener to the plate cylinder push set collars on pivot bolts against spacers and frames and tighten.



INSTALLATION

16

Install shoulder bolts provided (subject arrow) to attach lift arms to dampener.

17

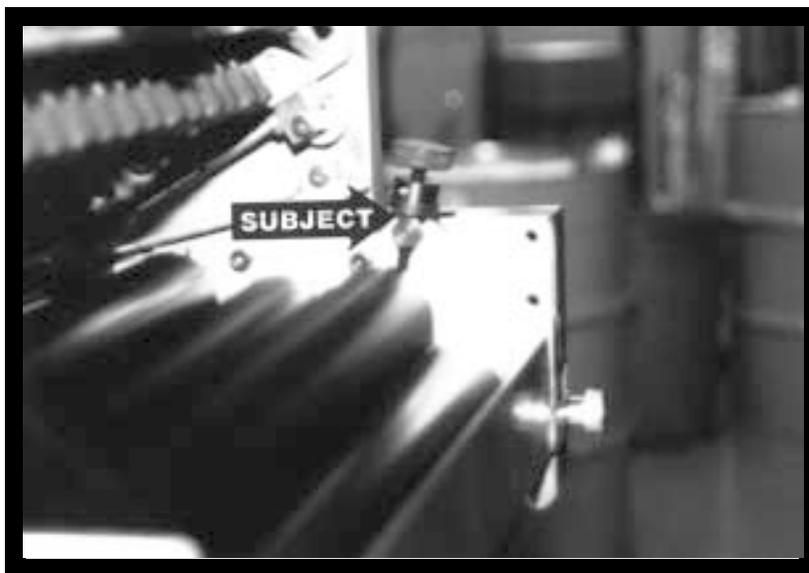
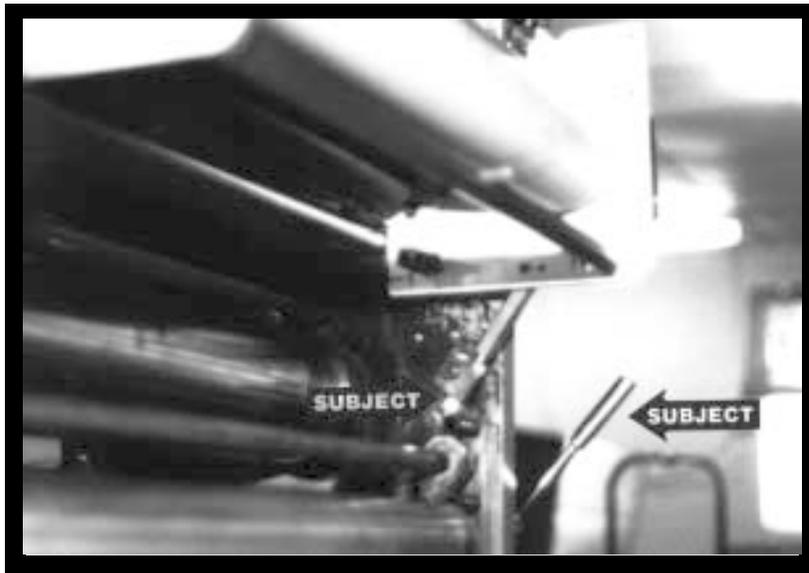
Slide in drip tray and water pan into dampener.

18

Install water bottle bracket as shown. Replace all guards, levers, and knobs.

YOU ARE NOW READY TO MAKE FINAL ADJUSTMENTS.

35



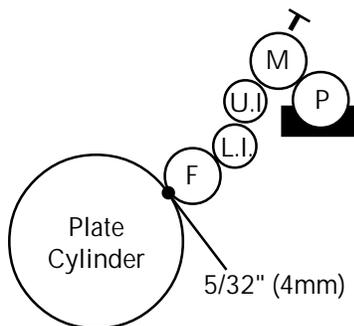
FINAL ADJUSTMENTS

1

Mount a metal plate to the plate cylinders. Dab a small amount of ink on the dampener oscillator and run the press at 3000 iph to distribute it evenly on all the rollers.

2

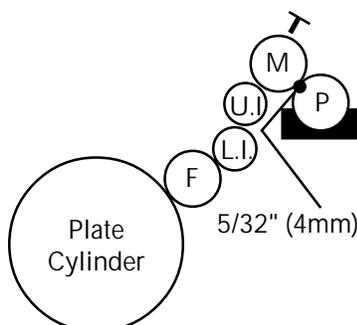
Drop the dampener to the plate using the water lever (right subject arrow). An even $5/32$ " stripe should be used from water form to plate. Lengthen the link (left subject arrow) to increase the pressure and vice-versa.

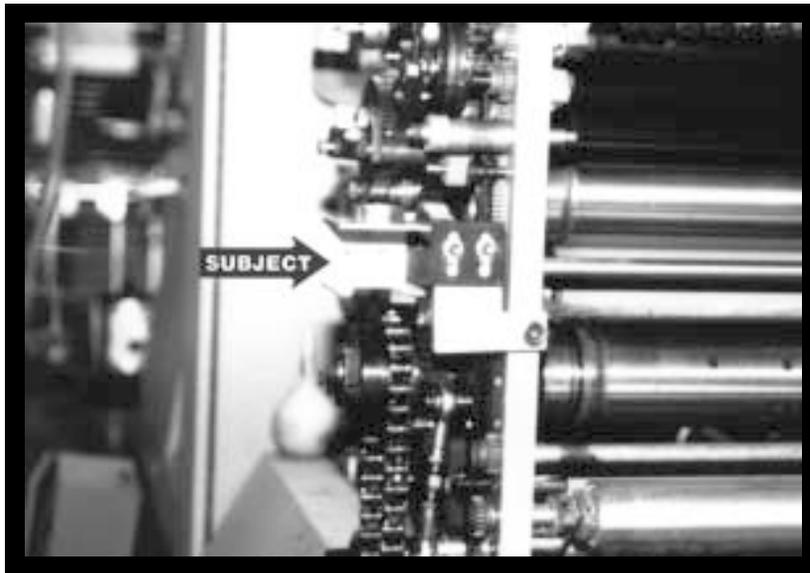


3

Set the pressure between the metering and pan rollers as follows:

- A. Spin the ratchet gear (subject arrow) down until it stops against the cross bar (it is not yet locked to the knurled knob).
- B. Adjust the knurled knob until an even $5/32$ " stripe is obtained between the pan and metering rollers. Always check the stripe by jogging press forward and observing pan roller.
- C. Lock the ratchet gear to the knurled knob by tightening the two set screws in the ratchet gear. (They are nylon tipped and should not damage the threads on the knurled knob.)





FINAL ADJUSTMENTS

4

The metering to upper intermediate roller pressure is automatically set with a self compensating hanger. There is no adjustment to make between these two rollers.

5

Place the water bottle in the bracket with some water in it. Adjust the water height by raising or lowering the bracket with the bolts (subject arrow). The water should be 1/2 to 3/4 of the way up the side of the water pan.

YOU ARE NOW READY TO PRINT.

BASIC OPERATION

- START OF DAY**
- A. Make sure the oscillator and metering rollers are in place.
 - B. Spin knurled knobs until the shoulder on the ratchet stops against the bar.
 - C. Mount plate to cylinder. Wipe down all plates before running. Pre-ink the Crestline dampener before running the plates with an extremely light coverage of ink. Dab the ink on the oscillator only.
 - D. Place water bottle in bracket.

NOTE: Accel recommends using the proper fountain solution for the plate material being run on the press. A good acid/gum etch should be used with metal plates.

-
- RUNNING DURING THE DAY**
- A. In general, the Crestline Dampener should not have to be adjusted from job to job. The form roller setting should never be changed unless it has deviated from the factory specification of 5/32" to the plate.
 - B. Adjustments to the amount of water fed to the plate are made by the knurled knobs that apply pressure to the metering roller. The dampener has been set up for minimum water. To increase the water to the plate, turn the knurled knobs counter clockwise 1 or 2 clicks at a time. This opens the nip between the metering and pan rollers and allows more water to the plate.
 - C. In general, more water will only be required when going from a metal plate to an electrostatic or silvermaster type plate.

CLEANING & MAINTENANCE

WASH UPS DURING THE DAY

1. Remove bottle and drain the excess water from the pan.
2. Mount clean-up mat to the press or if applicable, a wash-up attachment along with a metal plate to act as a bridge between dampener and inker.
3. Turn on the press and squirt a small amount of press ash on the ink and dampener rollers. (Squirt ink rollers only if using a wash-up attachment.)
4. Drop both the dampener and ink forms to the plate. If using an attachment, generally the dampener will pick up enough roller wash off the plate to clean itself, so apply wash directly to the dampener only when necessary.
5. Remove water pan and clean any solution left in it.
6. Be sure to wipe excess clean up solution from the ends of the dampener metering and pan rollers.

END OF THE DAY

1. Wash up dampener. Pay close attention to cleaning the ends of the pan and metering rollers that extend past the form rollers.
2. Spin the knurled knobs up until the metering roller can be removed.
3. Remove metering roller and wipe down thoroughly to remove any excess wash that may be on the roller.

CLEANING & MAINTENANCE

DEGLAZING THE DAMPENER

Periodic deglazing of water-soluble contaminants is necessary with the Crestline. Typically, every 2 weeks is sufficient, unless you are running electrostatic plates on a daily basis where deglazing should be performed weekly. A 50/50 solution of household ammonia and hot water can be used for deglazing purposes. If you prefer commercially available deglazers, avoid those containing pumice or gritty substances. Always follow deglazing with hot water and then roller wash.

OILING AND GREASING THE DAMPENER

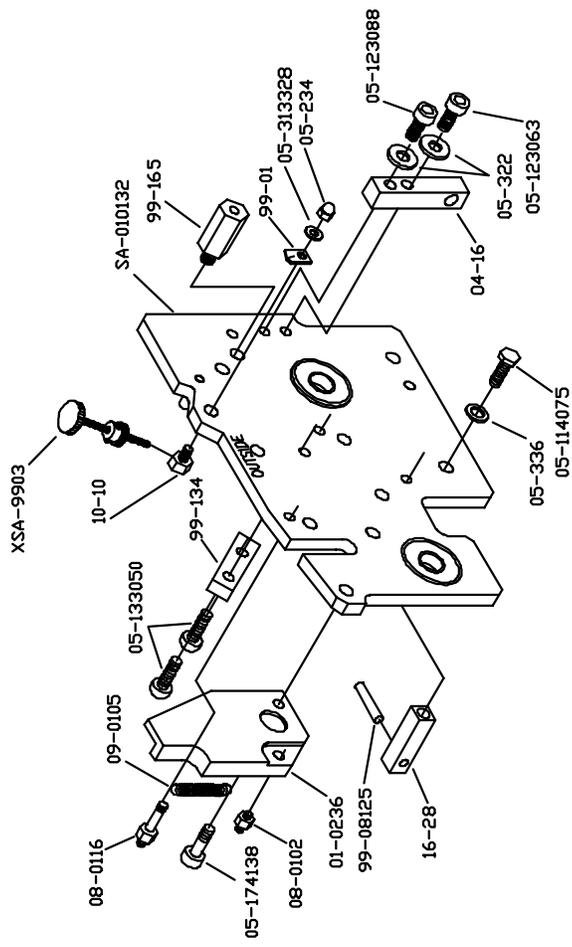
- A. Place a small amount of grease on the gears once a month.
- B. Inject grease into the oscillator grease fitting one a month.

CLEANING & MAINTENANCE

CRESTLINE CLEANING & MAINTENANCE CHART

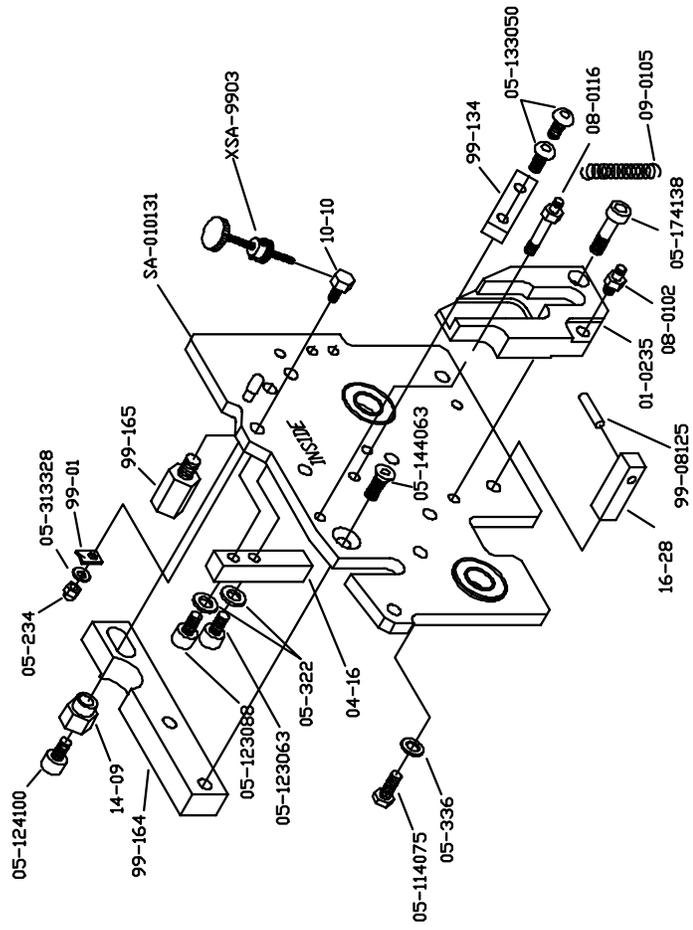
	Daily	Weekly	Bi-Weekly	Monthly
Wash Rollers	✓			
Deglaze Rollers				
Metal Plate Users			✓	
Silvermaster Plate Users			✓	
Electrostatic Plate Users		✓		
Grease Gears				✓
Inspect Ball Bearings				✓
Check Roller Pressures				✓
Check Roller Surfaces				✓

SIDE FRAME ASSEMBLY-NOPS
DIDDE 8.5



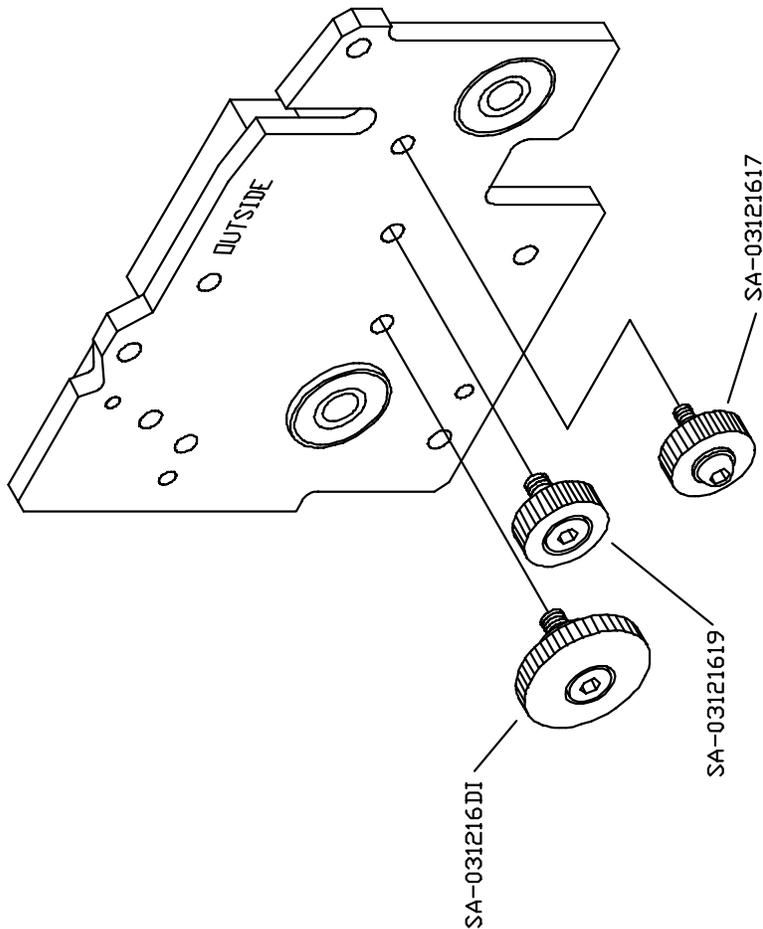
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SIDE FRAME ASSEMBLY-OPS
 DIDDE 8.5



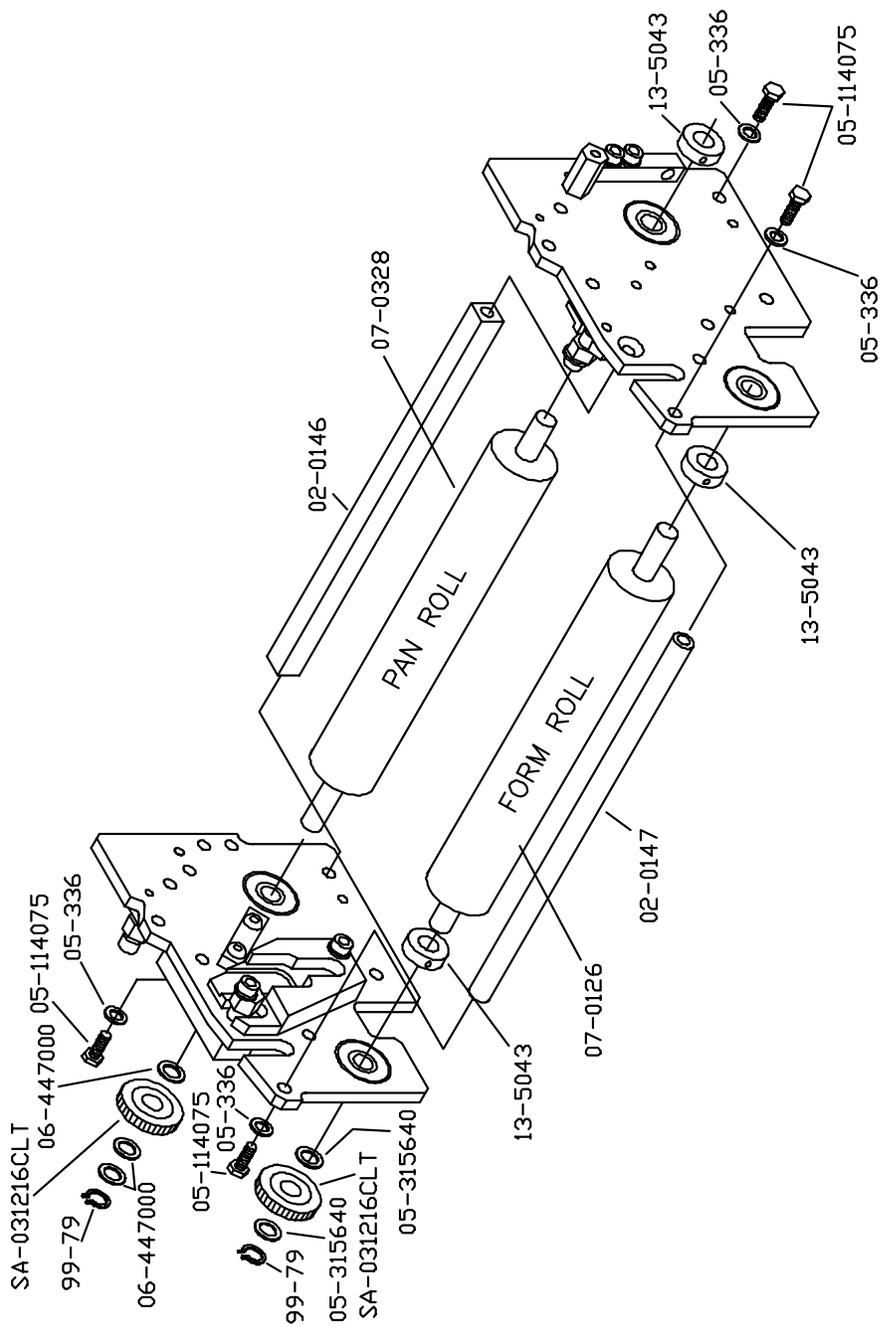
DID85C02, 4-2-97

IDLER GEAR ASSEMBLIES
DIDDE 8.5



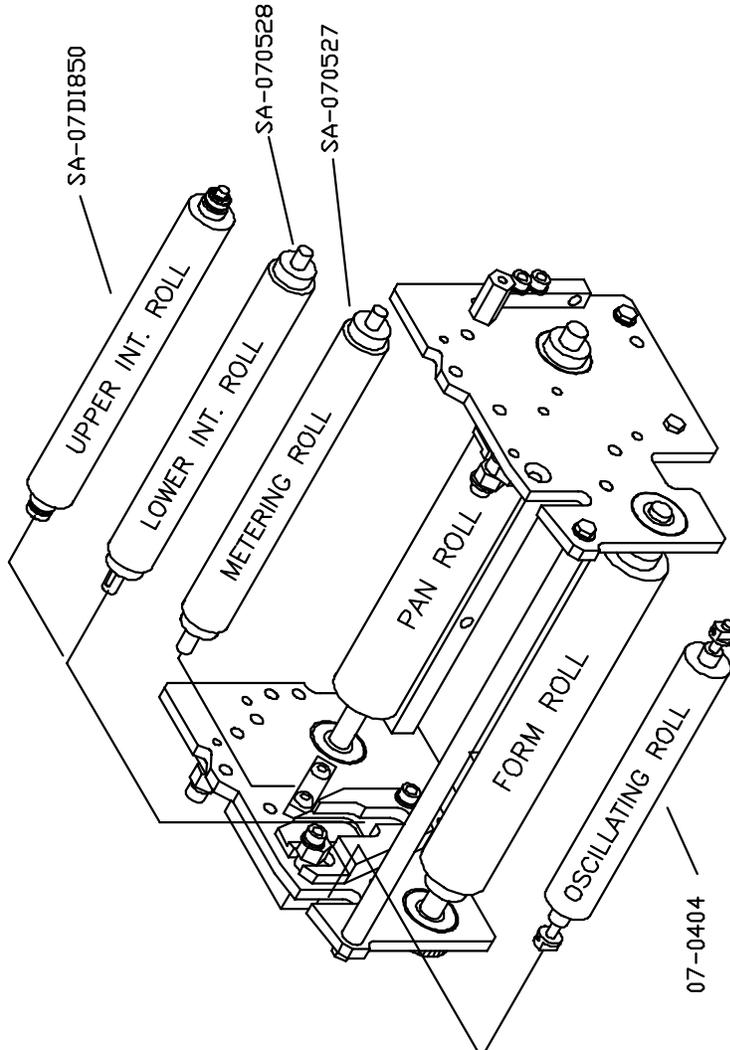
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DAMPENER ASSEMBLY
DIDDE 8.5



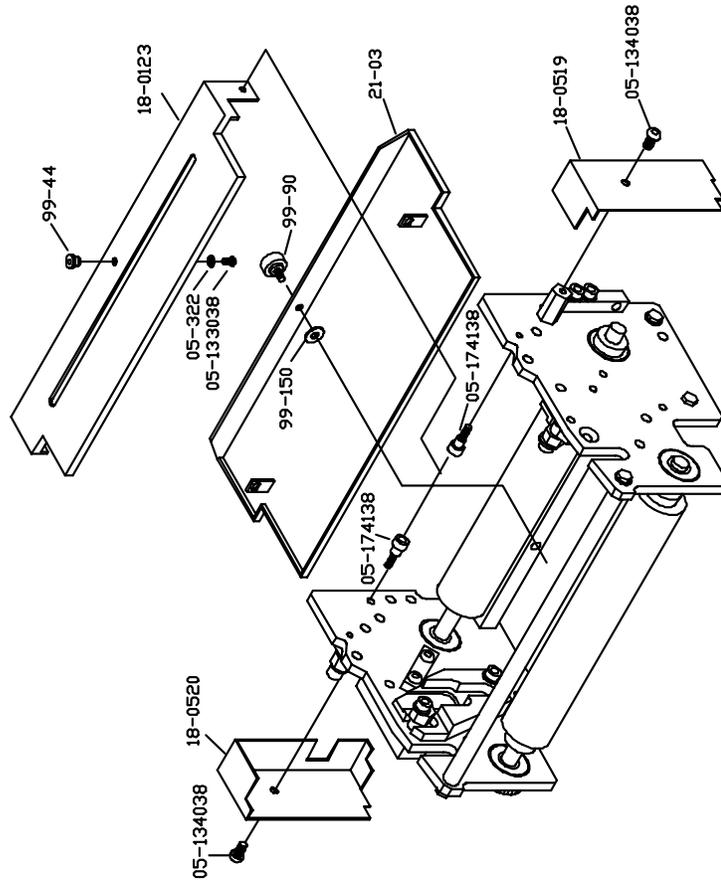
DID85C06, 4-3-97

METERING-INTERMEDIATE AND OSCILLATOR ROLLERS INSTALLATION
DIDDE 8.5



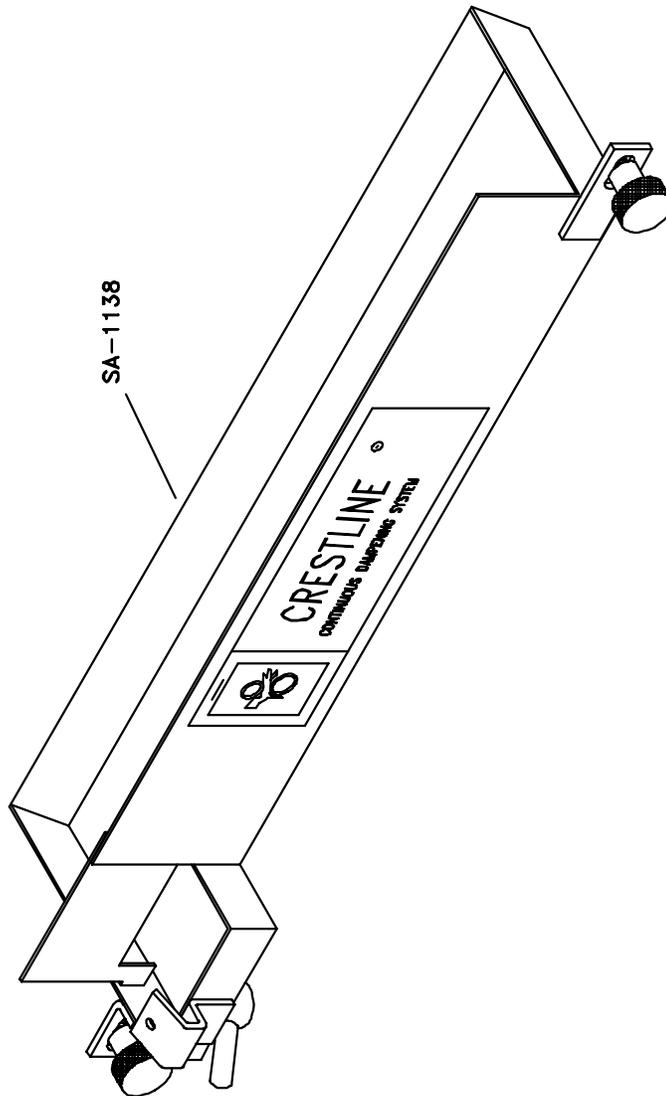
DID85C07, 4-4-97

GUARD AND DRIP TRAY MOUNTING
DIDDE 8.5



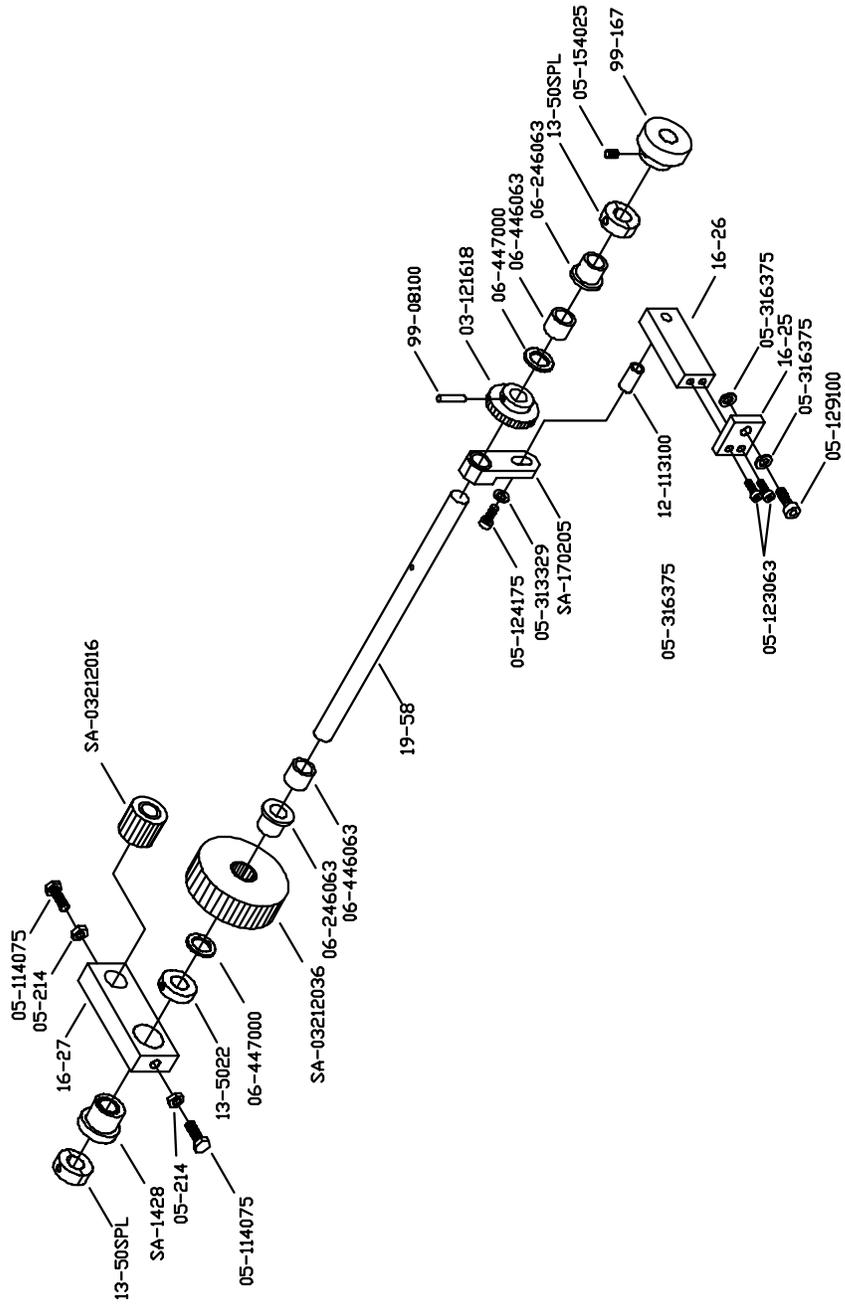
DID85C08, 4-4-97

WATER PAN ASSEMBLY
DIDDE 8.5



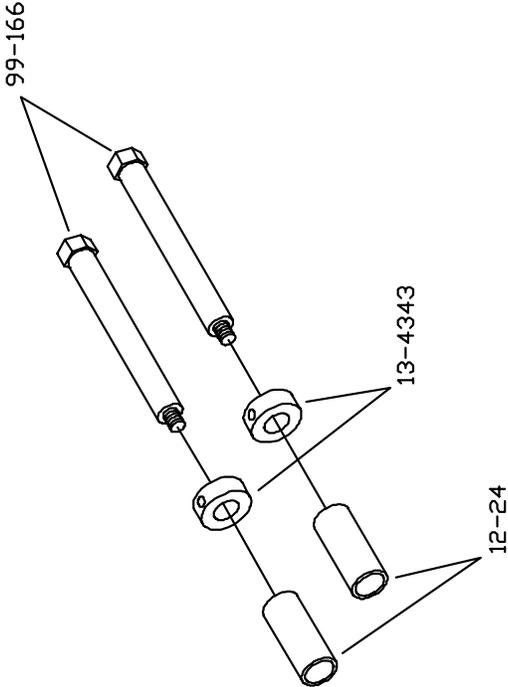
DID85C09, 4-4-97

DRIVE SHAFT ASSEMBLY
DIDDE 8.5

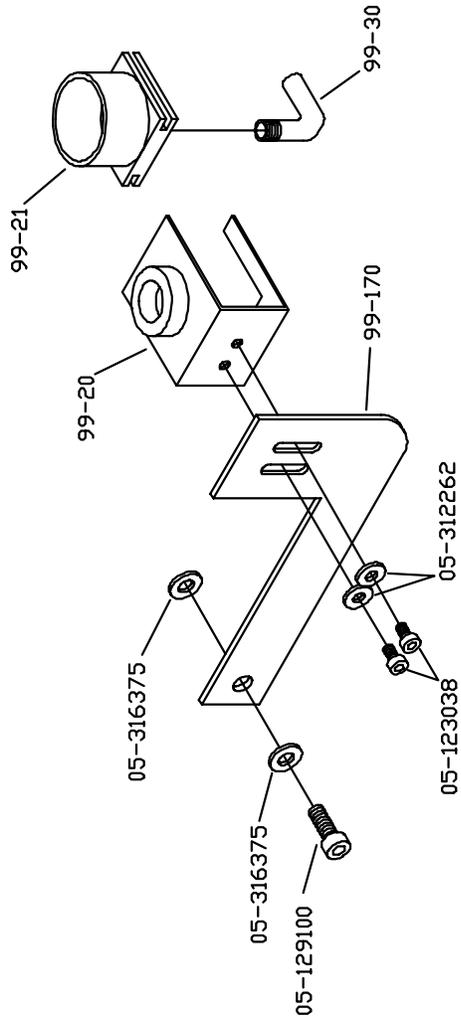


DID85C10, 4-14-97

PIVOT BOLT ASSEMBLIES
DIDDE 8.5

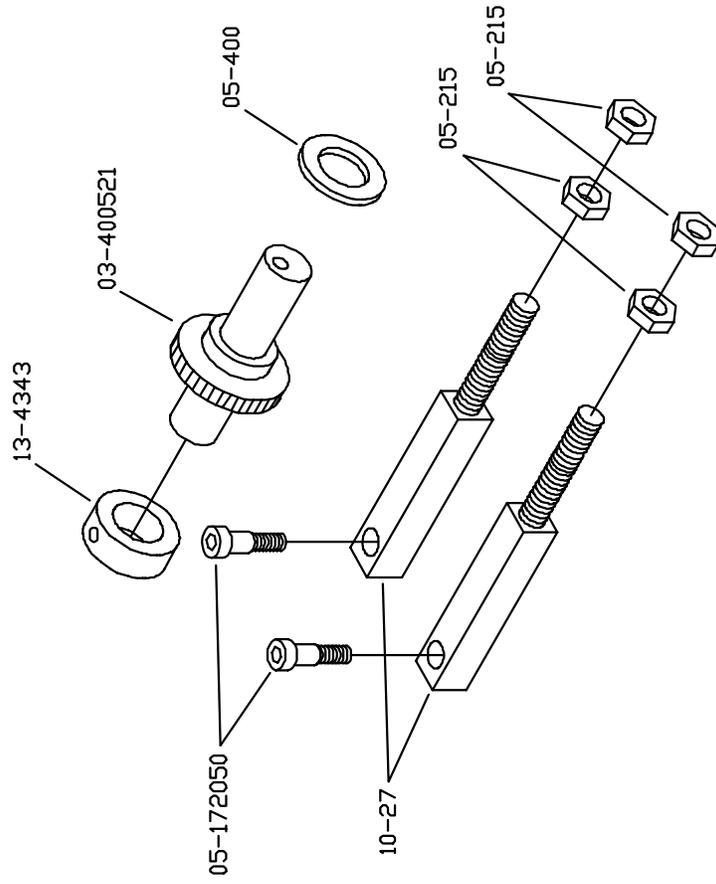


WATER BOTTLE BRACKET ASSEMBLY
DIDDE 8.5

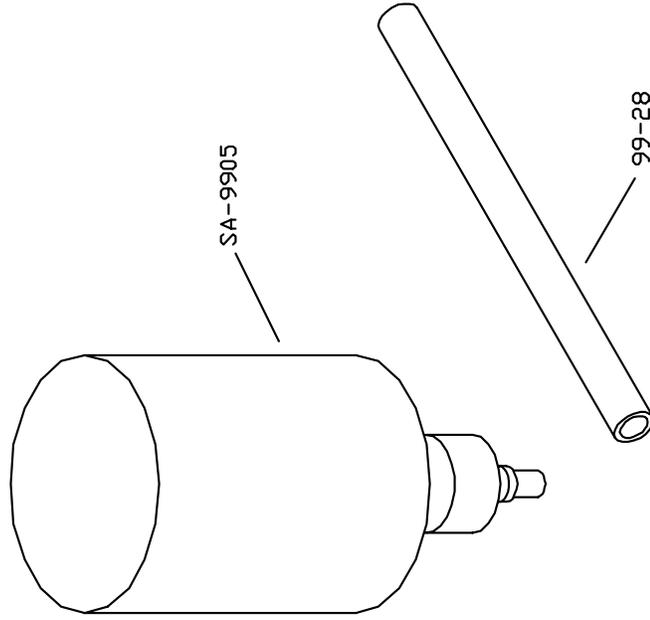


DIDDE 8.5, 4-14-97

LIFT ARM ASSEMBLY
DIDDE 8.5



WATER BOTTLE ASSEMBLY
DIDDE 8.5



DID85C14, 4-15-97



A Pamarco Technologies Inc. Company

11103 Indian Trail, Dallas, TX 75229 Phone 972-484-6808, Fax 800-365-6510
E-mail info@accel-us.com, Web Site www.accel-us.com